



## United States Environmental Protection Agency

### Region 9 Laboratory

1337 S. 46th Street Building 201

Richmond, CA 94804

**Subject:** Analytical Testing Results - Project R04S81

**SDG: 04239A**

**From:** Brenda Bettencourt, Director

**EPA Region 9 Laboratory**

**PMD-2**

**To:** Chris Lichens

**Site Cleanup Section 4**

**SFD-7-4**

Attached are the results from the analysis of samples from the **Omega Chemical OU1 August 2004 Split Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Vance Fong at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

#### **Analyses included in this report:**

---

1,4-Dioxane



United States Environmental Protection Agency  
**Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804  
Phone:(510) 412-2300 Fax:(510) 412-2302

**Project Manager:** Chris Lichens

**Site Cleanup Section 4**

**SDG:** 04239A

**Project Number:** R04S81

**75 Hawthorne Street**

**Reported:** 10/06/04 16:21

**Project:** Omega Chemical OU1 August 2004 Split  
Sampling

**San Francisco CA, 94105**

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
OC1-OW1B-W-5-22	0408048-01	Water	08/27/04 07:30	08/30/04 11:25
OC1-OW1-W-0-23	0408048-02	Water	08/27/04 08:00	08/30/04 11:25

Surrogate spike recoveries for these samples were outside control limits. Samples were re-analyzed and surrogate spike recoveries were still outside control limits. There was insufficient samples for re-extraction. Results from the the first analysis are reported and flagged accordingly.



United States Environmental Protection Agency  
**Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804

Phone:(510) 412-2300

Fax:(510) 412-2302

**Project Manager:** Chris Lichens

**Project Number:** R04S81

**Project:** Omega Chemical OU1 August 2004 Split  
Sampling

**Site Cleanup Section 4**

**75 Hawthorne Street**

**San Francisco CA, 94105**

**SDG:** 04239A

**Reported:** 10/06/04 16:21

**Sample Results**

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>Lab ID: 0408048-01</b>						Water - Sampled: 08/27/04 07:30		
<b>Sample ID: OC1-OW1B-W-5-22</b>						Semivolatile Organic Compounds by EPA Method 8270C		
<b>1,4-Dioxane</b>	<b>24</b>	<b>Q7, J, Q1</b>	<b>1.1</b>	ug/L	B4H0087	08/31/04	09/01/04	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	2.46		46 %		50-130%	"	"	"
<b>Lab ID: 0408048-02</b>						Water - Sampled: 08/27/04 08:00		
<b>Sample ID: OC1-OW1-W-0-23</b>						Semivolatile Organic Compounds by EPA Method 8270C		
Surrogate: 1,4-Dioxane-d8	0.802		16 %		50-130%	B4H0087	08/31/04 09/01/04	
<b>Lab ID: 0408048-02RE1</b>						Water - Sampled: 08/27/04 08:00		
<b>Sample ID: OC1-OW1-W-0-23</b>						Semivolatile Organic Compounds by EPA Method 8270C		
<b>1,4-Dioxane</b>	<b>5900</b>	<b>A-01, J</b>	<b>100</b>	ug/L	B4H0087	08/31/04	09/02/04	8270C/SOP315



United States Environmental Protection Agency  
**Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804  
Phone:(510) 412-2300 Fax:(510) 412-2302

**Project Manager:** Chris Lichens

**Project Number:** R04S81

**Project:** Omega Chemical OU1 August 2004 Split  
Sampling

**Site Cleanup Section 4**

**75 Hawthorne Street  
San Francisco CA, 94105**

**SDG:** 04239A

**Reported:** 10/06/04 16:21

R9

**Quality Control**

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	--------------------------	-----------------------	-------	----------------	------------------	------	----------------	-----	--------------

Prepared: 08/31/04 Analyzed: 09/01/04

Semivolatiles Organic Compounds by EPA Method 8270C - Quality Control

**Batch B4H0087 - 3520B CLLE - 1,4-**

**Dioxane**

**Blank (B4H0087-BLK1)**

1,4-Dioxane	ND	U	1.0	ug/L						
Surrogate: 1,4-Dioxane-d8	3.27			"	4.89		67	50-130		

**LCS (B4H0087-BS1)**

1,4-Dioxane	10		1.0	ug/L	9.80		102	50-130		
Surrogate: 1,4-Dioxane-d8	3.23			"	4.90		66	50-130		

**Matrix Spike (B4H0087-MS1)**

**Source: 0408048-01**

1,4-Dioxane	49	J, Q1, Q7	1.9	ug/L	19.3	24	130	50-130		
Surrogate: 1,4-Dioxane-d8	4.38			"	9.63		45	50-130		

**Matrix Spike Dup (B4H0087-MSD1)**

**Source: 0408048-01**

1,4-Dioxane	44		2.0	ug/L	19.5	24	103	50-130	11	30
Surrogate: 1,4-Dioxane-d8	5.21			"	9.77		53	50-130		



United States Environmental Protection Agency  
**Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804  
Phone:(510) 412-2300 Fax:(510) 412-2302

**Project Manager:** Chris Lichens

**Project Number:** R04S81

**Project:** Omega Chemical OU1 August 2004 Split  
Sampling

**Site Cleanup Section 4**

**75 Hawthorne Street  
San Francisco CA, 94105**

**SDG:** 04239A

**Reported:** 10/06/04 16:21

**Qualifiers and Comments**

Q7	Surrogate spike recoveries for this sample were outside control limits.
Q1	The internal standard associated with this analyte did not meet area count criteria.
J	The reported result for this analyte should be considered an estimated value.
A-01	Surrogate spike recoveries for this sample were outside control limits. Surrogate recoveries are reported from the undiluted run because surrogate recoveries from the diluted run are not meaningful.
U	Not Detected
NR	Not Reported